

# **Mathematical model of the component mixture distribution in the molten cast iron during centrifugation (sedimentation)**

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## **Abstract**

© Published under licence by IOP Publishing Ltd. For the development and management of the manufacturing processes of axisymmetric articles with compositional structure by centrifugal casting method [1,2,3,4] is necessary to create a generalized mathematical model of the dynamics of component mixture in the molten cast iron during centrifugation. In article. based on the analysis of the dynamics of two-component mixture at sedimentation, a method of successive approximations to determine the distribution of a multicomponent mixture by centrifugation in a parabolic crucible is developed.

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